



NOAA NATIONAL OCEANIC AND
ATMOSPHERIC ADMINISTRATION
UNITED STATES DEPARTMENT OF COMMERCE



National Weather Service Forecast Office Honolulu, HI

“DISCOVER YOUR FUTURE IN AVIATION” EVENT AT THE PACIFIC AVIATION MUSEUM

On Saturday, March 23, 2013, forecasters Matthew Foster and Tony Reynes from National Weather Service in Honolulu provided an exhibit booth for “Discover Your Future in Aviation” at the Pacific Aviation Museum on Ford Island. The focus of the event was to provide hands-on activities related to aviation for families, school and scout organizations. Many local boy and cub scouts showed up to help earn their merit badges.

Our exhibit included three different demonstrations including a tornado-in-a-box, a smaller tornado machine and an aluminum can crushing experiment. The tornado-in-a-box featured a mist maker in a bucket of water at the bottom and a fan the top of a box with spaces in each corner. The mist circulated around in a vortex caused by the fan and air coming in the box corners. Similarly, the small tornado machine used dry ice, or solid carbon dioxide at the bottom. The sublimation provided a way to see the spinning airflow provided by the fan. The aluminum can crushing experiment involved heating up water inside until boiling. The can was then dunked into a bowl of ice water. The rapid cooling caused a quick pressure drop inside causing the can to implode.

The National Weather Service is grateful to have outreach opportunities like these because it allows us to share our knowledge of the science and strengthen our relationship with the communities we serve around Hawaii.



Tony Reynes (left) demonstrates the tornado-in-a box. Matthew Foster (right) shows the scouts how to implode an aluminum can.



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